

Entomology

BULGARIA

BESOVSKI, V., Institute of Fishing and Oceanography, Varna

"Allotrichoma Valkanovi N. Sp. - A New Species of (Diptera Ephydriidae) in Bulgaria"

Sofia, Doklady Bolgarskoy Akademii Nauk, Vol 19, No 9, 1966, pp 851-853

Abstract: [German article] During the recent ~~infestation~~ of the Ephydriidae family of the Black Sea shore the author encountered numerous samples of the Allotrichoma genus. A more detailed study of the ♂ ♂ hypopygium indicated that there exist two different previously unknown species. This conclusion was confirmed by Dr. R. Dahl from Lunds University, Sweden, and the article presents a detailed description of Alltrichoma Valkanovi n. sp., a new Bulgarian species of Diptera Ephydriidae. No references. (Manuscript received, 26 May 66.)

1/1

BESPAKHOTNAYA, T. P. ENGINEER

Cand Tech Sci

Dissertation: "Investigation of the Precision of Electric- Contact  
Automatic Devices for Dimensional Control."

15 June 49

Moscow Machine Tool Inst  
imeni I. V. Stalin

**SO Vecheryaya Moskva**  
**Sum 71**

BERKLAYD, I.M.; KUROCHKIN, A.P.; LYAKHOVSKIY, A.V.; SNETKOV, A.M.; CHUDOV, V.A.; BAYBUROV, B.S., red.; KOCHENOV, M.I., red.; MALYY, D.D., red.; BEZPAKHOTNAYA, T.P., nauchnyy red.; YELISEYEV, M.S., red. izd-va; TIKHANOV, A.Ya., tekhn.red.

[Transducers and measuring gages] Datchiki i izmeritel'nye golovki. Pod red. B.S.Baiburova, M.I.Kochanova, D.D.Malogo. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 158 p.

(MIRA 14:1)

(Transducers)

(Gages)

BESPAKHOTNYI, P.D., Cand Tech Sci —(disc) " Study of performance and  
power in <sup>the</sup> cutting of metals." Mos, 1959. 11 pp with graphs (Min of Higher  
Education USSR, Mos Order of Lenin Aviation Inst (Lt. Sargo Ordzhonikidze)  
110 copies (FI, 34-53, 118)

-36-

KRIVOUKHOV, Vasil'y Aleksandrovich,; BRUSHTYIN, Boris Yefimovich,; YEGOROV, Sergey Vasil'yevich,; ~~CHERVYAKOV~~, Arkadiy Grigor'yevich,; ~~CHELOBOV~~, Nikolay Alekseyevich,; MYAKISHEV, Mikhail Antonovich,; BOVIN, Vladimir Georgiyevich,; PETRUKHA, Petr Grigor'yevich,; BESPAKHOTNYY, Petr Dmitriyevich,; KLUSHIN, M.I., kand. tekhn. nauk, dots., retsenzent,; ARSHINOV, V.A., kand. tekhn. nauk, dots., red.; SUVOROVA, I.A., izd. red.; ROZHIN, V.P., tekhn. red.

[Metal cutting] Obrabotka metallov rezaniem. Moskva, Gos. izd-vo obor. promyshl., 1958. 627 p. (MIRA 11:12)  
(Metal cutting)

KRIVOUKHOV, V.A. doktor tekhn. nauk, prof.; BESPAKHOTNYY, P.D., aspirant

Investigating deformations caused by metal cutting. Izv. vys.  
zav.; mashinostr. no.1:94-105 '58. (MIRA 11:6)

1. Moskovskiy aviatsionnyy institut.  
(Metal cutting) (Deformations (Mechanics))

*BESPAKHOTNYY, P. D.*

PHASE I BOOK EXPLOITATION SOV/5788

Krivoukhov, V. A., S. V. Yegorov, B. Ye. Brushteyn, A. I. Markov,  
A. G. Chervyakov, P. D. Bepakhotnyy, A. I. Belousov, and A. D. Chubarov

Obrabatyvayemost' rezaniyem zharoprochnykh i titanovykh splavov (Machinability  
of Heat-Resistant and Titanium Alloys) Moscow, Mashgiz, 1961. 243 p.  
Errata slip inserted. 4500 copies printed.

Ed. (Title page): V. A. Krivoukhov; Reviewer: A. M. Karatygin, Candidate of  
Technical Sciences; Ed. of Publishing House: N. A. Ivanova; Tech. Ed.:  
A. F. Uvarova; Managing Ed. for Literature on Cold Working of Metals and  
Machine-Tool Making: V. V. Rzhavinskiy, Engineer.

PURPOSE: This book is intended for technical personnel concerned with the  
machining of metals. It may also be useful to students at schools of higher  
education.

Card 1/2  
2

Machinability of Heat-Resistant (Cont.)

SOV/5788

COVERAGE: Basic conditions for improving the machinability of heat-resistant and titanium alloys are examined. Results of investigations on the effect of various factors (e.g., tool geometry, single-point tool wear, cutting regimes, lubricating coolants, heat treatment) on the machinability of alloys are presented. Recommendations are given for the selection of rational cutting regimes, effective lubricating coolants, and preliminary heat treatment. No personalities are mentioned. There are 91 references: 61 Soviet, and 30 English.

TABLE OF CONTENTS [Abridged]:

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| Ch. I. General Concepts on Heat-Resistant and Titanium Alloys                            | 3  |
| Ch. II. Deformation of Metal in the Removed Layer                                        | 12 |
| Ch. III. Soviet and Non-Soviet Practices in Machining Heat-Resistant and Titanium Alloys | 35 |
| Card 2/6 <sub>2</sub>                                                                    |    |



YEGOROV, Sergey Vasil'yevich, kand. tekhn.nauk, dots.; CHERVYAKOV,  
Arkadiy Grigor'yevich, kand. tekhn. nauk, dots. Prinsipal  
uchastiye BESPAKHOTNYY, P.D., kand. tekhn. nauk; SMIRNOV,  
B.V., red.

[Metal cutting and metal-cutting tools; laboratory work] Re-  
zanie metallov i rezhushchii instrument; laboratornyi prakti-  
kum. Moskva, Gos.izd-vo "Vysshaya shkola," 1963. 196 p.  
(MIRA 17:4)

*BESPALA, A.U.*

TARABAN, A.S.; KOSOVSKIY, Yu.Yu.; BESPALA, A.U.; SHOYKHET, A.S.

Therapeutic effectiveness of certain antibiotics in whooping cough  
and measles. *Pediatrics* no.4:47-49 J1-Ag '54. (MLRA 7:10)

1. Iz kafedry infektsionnykh bolezney Chernovitskogo meditsinskogo  
instituta (dir. dotsent N.B.Man'kovskiy)  
(WHOOPING COUGH, therapy,  
antibiotics)  
(MEASLES, therapy,  
antibiotics)  
(ANTIBIOTICS, therapeutic use,  
measles & whooping cough)

BESPALAYA, L.M., inzh.; YURENKOV, V.D., kand. tekhn. nauk

Modeling of doubled and high-amperage current-limiting reactors.  
Trudy VNIIE no. 20:137-150 '65 (MIRA 19:1)

BESPAL'CHEVA, A.A., inzhener.

Concrete material for designing and estimating underground  
reinforced water reservoirs. Rats. i izobr. predl. v stroi.  
no.129:38-39 '56. (MIRA 9:9)  
(Underground construction) (Reservoirs)

BESPAL'CHIK, A.I.

Multistable transistor flip-flop. Avtom.i prib. no.1:70-72 Ja-Mr '63.  
(MIRA 16:3)

1. Kazanskiy aviatsionnyy institut.  
(Transistors)

ACCESSION NR: AR4023772

S/0274/64/000/001/B085/B086

SOURCE: RZh. Radiotekhnika i elektrosvyaz', Abs. 1B516 .

AUTHOR: Bepal'chik, A. I.

TITLE: Concerning the design of inductance coils

CITED SOURCE: Tr. Kazansk. aviats. in-ta, vy\*p. 73, 1963, 104-113

TOPIC TAGS: inductance coil, inductance coil design, single layer winding, multilayer winding, optimal coil parameters

TRANSLATION: Formulas are proposed for the calculation of the optimal geometrical dimensions of inductance coils with single-layer and multilayer windings. The formulas derived are refinements of the existing formulas, which are not suitable for unambiguous structural coil design. The ambiguity is eliminated by using optimal relations between the geometrical dimensions. The design procedure

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ACCESSION NR: AR4023772

is greatly simplified, the use of copper is reduced, the Q is increased, and the weight is decreased. It becomes possible to simplify the determination of the optimal wire diameter. Relations are derived for one-layer and multilayer coils between the optimal winding diameter (the diameter that ensures maximum inductance for a fixed wire length and wire diameter) and the length of the winding. Design using the derived formulas reduces, for the case of coils with single-layer windings, to a determination of the winding diameter from the specified wire diameter. For multilayer coils, the design yields the winding diameter, the number of turns, the number of turns per layer, the number of layers, and the maximum and minimum winding diameters. For coils of optimal construction with a winding of the "universal" type it is found that the number of bends of the wire is a constant quantity, which does not depend on the other structural parameters. The results have shown in practice good agreement with the calculations. Bibliography, 3 titles. N. A.

Card 2/82

SUPRUNOV, N.N.; BESPAL'CHIK, I.M.; TIMOFEYEV, V.M.; BEZLYUD'KO,  
A.I., ~~otv.~~ red.; YEROKHIN, G.M., ved. red.; NESTERENKO,  
V.I., red.; KUNIN, I.K., red.;

[Jet boring; studies] Termicheskoe burenie; sbornik trudo-  
v. Moskva, Nedra, 1965. 182 p. (MIRA 18:12)

1. Krivoy Rog. Institut "Giprorudmash."



SELYUTIN, Abram Moiseyevich; BESPAL'CHIKOVA, Tat'yana Aleksandrovna;  
KUTAY, A.K., kand. tekhn. nauk, retsenzent; NAUMOV, Ye.P.,  
inzh., red.; LEYKINA, T.L., red. izd-va; SHCHETININA, L.V.,  
tekhn. red.

[Handbook on tolerances and fits] Spravochnik po dopuskam i po-  
sadbkam. Moskva, Mashgiz, 1962. 143 p. (MIRA 15:8)  
(Tolerance (Engineering))

REDACTED

VZOROV, Nikolay Mikhaylovich; ~~BESPAI'KO, Aleksandr Grigor'evich;~~  
BELINSKIY, M.Ya., redaktor; ~~CHIRIKOV, N.S.,~~ ~~tehnicheskii~~ redaktor

[Collection of problems in engineering mechanics] Sbornik zadach  
po tekhnicheskoi mekhanike. Moskva, Vsesoyuzno-pedagog. izd-vo  
Trudrezervizdat, 1957. 159 p. (MIRA 10:10)  
(Mechanics, applied--Problems, exercises, etc.)

12

24

**Treating castor oil for the purpose of obtaining a tung oil type product.** A. A. Ivanova and A. I. Bespal'ko. *Khimicheskaya Prom.* 1045, No. 12, 11-14. Dehydration of castor oil in the presence of several catalysts was studied. The purpose was to produce a drying oil of the tung-oil type. Treating castor oil for 4 hrs. at 275-301° to an acetyl no. 73.3 in the presence of 1% lithium yielded a product contg. 1.5% of the 9:11 isomer of linoleic acid. By heating in the presence of 3% metallic Zn and 1.5%  $Al_2O_3$  for 5.5 hrs. at the same temp. to an acetyl no. 34 a product was formed which contained 20.5% of the isomer. Further expts. were carried out with 5% oxalic acid and maleic or phthalic anhydride as catalysts. The temp. was 275-301° as only within this temp. range did the reaction proceed satisfactorily. Best results were obtained with maleic anhydride. The time required was 4.5 hrs.; further heating caused gelatinization. The optimum quantity of maleic anhydride was 5.75%. The product obtained from castor oil under these conditions was tested in varnishes, lacquers, and enamels. This product was of a quality between tung and linseed oil. The hardness and water-resistance of films made with maleic anhydride-modified castor oil resembled closely these properties in films made with tung oil. However, there was evidence of syneresis as in linseed oil films. The other catalysts were  $\beta$ -naphthalenesulfonic acid,  $Na_2SO_4$ , and  $NaHSO_4$ . Of all the catalysts tried  $NaHSO_4$  was the most effective. The optimum quantity is 2%, time 12 hrs., and temp. 245-50°. Films of  $NaHSO_4$ -modified castor oil resemble tung-oil films; no syneresis was observed.

M. Hosh

ASB SLA METALLURGICAL LITERATURE CLASSIFICATION

BESPALKO, A. L.

Production of driers from naphthenic acids. R. D.  
Zamvslov, D. N. Bogoslovskii and A. L. Besspalko Org-  
Chem. Ind. (U.S.S.R.) 5,421-2(1938).-- The prepa.

and uses of Mn, Co. and Pb driers from vacuum redistd.  
naphthenic acids by the methods of pptn. and fusion are  
discussed from techn and economic viewpoints.

Chas. Blank

DENISOV, Ye.M.; FERNANDEZ, V.R.; HENRIKSEN, A.N., master

Experience in erecting a 180 meter reinforced concrete smokestack  
in the fifth line of the Dneprovsk State Regional Electric  
Power Plant. Energ. stroit. no. 11:61-64 '69. (MIRA 17:6)

1. Glavnyy inzh. Moskovskogo upravleniya teata "Spetshelezobestroy" (for Denisov).

50

COMMON ELEMENTS

COMMON VARIANTS MOST

PROCESS AND PROPERTY INDEX

Tung Type Oil From Castor OIL. A. A. Ivanova and I. A. Baspalko. *Paint Manufacture*, v. 19, Apr. 1949, p. 118-122. Translated from *Khimicheskaya Promyshlennost' (Chemical Industry)*, no. 12, 1945, p. 11-14.

The desirable properties of tung oil films are due to the presence of a large proportion of the triglycerides of eleostenic acid, characterized by conjugated double bonds. Therefore, in the production of tung oil substitutes from other oils, it is necessary to produce by chemical treatment such a system of conjugated double bonds. Results of some Soviet research on this subject are tabulated and discussed. 18 ref.

OPEN

MATERIALS INDEX

ASTM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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SECTION 3

BESPAL'KO, I.G., red.; GUSEV, V.F.; YEVDOKIMOV, P.D., prof., red.;  
IVANOV, S.M., red.; NIKULIN, V.N., red.; SICHIOKHO,  
G.A., red.; SIPTSOV, A.S., red.

[Transactions of the scientific conference on production]  
Trudy nauchno-proizvodstvennoi konferentsii. Pskov, 1962.  
341 p. (MIRA 18:2)

1. Leningrad. Nauchno-issledovatel'skiy veterinarnyy institut.
2. Nachal'nik veterinarnogo otdela Pskovskogo oblastnogo upravleniya proizvodstva i zagotovok sel'skokhozyaystvennykh produktov i Leningradskiy Nauchno-issledovatel'skiy veterinarnyy institut (for Nikulin).
3. Leningradskiy veterinarnyy institut (for Yevdokimov).

BESPAL'KO, L.A. [Bezpal'ko, L.A. (Dnepropetrovsk); ROZENBERG, L.B.  
(Dnepropetrovsk); TUL'CHINSKIY, B.G. [Tul'chyns'kyi, B.H.]  
(Dnepropetrovsk)

A new design of the annular part of a box bottom. Prykl.mekh.  
8 no.4:398-402 '62. (MIRA 15:9)

1. Dnepropetrovskiy gosudarstvennyy universitet.  
(Elastic plates and shells)



BESPAL'KO, L. A. (Dnepropetrovsk); ZAGUBIZHENKO, P. A. [Zahubyzhenko,  
~~P. A.~~] (Dnepropetrovsk); SHEVLYAKOV, Yu. A. (Dnepropetrovsk)

Plane problem for a system of beams with intermediate elastic  
layers. Prikl. mekh. 9 no.3:315-321 '63. (MIRA 16:4)

1. Dnepropetrovskiy gosudarstvennyy universitet.

(Beams and girders)

KOSINSKAYA, A.V., [Kosyn'ka, A.V.]; BESPAL'KO, N.A.; KORABLIN, V.P.;  
KHAN, B.Kh.

Andesite-basalts in Transcarpathian of the Ukrainian S.S.R.  
as raw materials for obtaining cast stones. Geol. zhur. 23  
no.5:62-72 '63. (MIRA 16:12)

BESPAL'KO, V. G. and KOMPANETS, G. T. (Veterinary Surgeons, Khar'kov  
Oblast', Linkovatovsk Agricultural Technical College)

"Bicillyn 1 - An effective remedy for lung diseases in swine"

Veterinariya, Vol. 38, no. 10, October 1961, pp. 81-89

GORUSHKINA, L.P.; PRIKHOD'KO, N.M.; SELIVERSTOV, A.O.; CHERNYSH, S.I.;  
BESPALKO, V.K.

Use of quick-hardening mixtures. Lit. proizv. no. 2:39 F '61.  
(MIRA 14:4)  
(Sand, Foundry)

BESPAL'KO, Vladimir Pavlovich; ZHIDELEV, Mikhail Aleksandrovich; NIKITIN,  
Boris Pavlovich; STEBLEV, N.M., redaktor; POLYAKOV, A.A., redaktor;  
SMIRNOV, G.I., tekhnicheskiy redaktor

[Machine manual; a textbook] Rukovodstvo po mashinovedeniiu; posobie  
dlia uchashchikhsia. Moskva, Gos.uchebno-pedagog. izd-vo M-va  
prosv.RSFSR. Pt.2. [Automobiles] Avtomobil'. 1957. 133 p. (MIRA 10:7)  
(Automobiles)

BESPAL'KO, Vladimir Pavlovich; ZHIDEL'EV, Mikhail Aleksandrovich; NIKITIN, Boris Pavlovich; POLYAKOV, A.A., redaktor; MAKSAYEV, A.V., tekhnicheskii redaktor

[Machinery manual] Rukovodstvo po mashinovedeniiu. Moskva, Gos. uchebno-pedagog. izd-vo M-va prosv. RSFSR. Pt.1. [Textbook for students in the 8th grade] Posobie dlia uchashchikhsia VIII klassa. 1957. 223 p. (MIRA 10:10)  
(Machinery)

BESPAL'KO, V.P.

Using students' knowledge of general science in the study of an automobile. Politekh.obuch, no.2:37-47 F '59. (MIRA 12:3)  
(Automobile engineering--Study and teaching)

: 22(1)

SOV/47-59-3-14/53

AUTHOR: Bespal'ko V.P., (Moscow)

TITLE: The Connection Between Physics Teaching and the Study  
of the Automobile

PERIODICAL: Fizika v shkole, 1959, Nr 3, pp 48-56 (USSR)

ABSTRACT: The author emphasizes and specifies the important role of the automobile or tractor in the teaching of physics. In view of their comprehensive design and construction, these machines are particularly useful as models showing the application of laws of the natural sciences. Criticizing the lack of attention given this problem at schools, the author proposes a systematic and consecutive study of an entire and typical mechanism in connection with some subjects dealt with in the physics course. However, in physics lessons only the basic principle of operation and the design of the mechanism should be considered. The author describes a comprehensive program, richly illustrated with examples, diagrams and formulae,

Card 1/3



SOV/47-59-3-14/53

The Connection Between Physics Teaching and the Study of the  
Automobile

which is intended as a guide for teachers of physics in the eighth and ninth classes of secondary schools. In the eighth class, the study of the laws of mechanics, rectilinear motion and static and sliding friction can best be studied by using the automobile or its component parts (wheels, tires) as an example. Other subjects dealt with in the eighth class, which the author wants to be discussed in connection with practical studies of the automobile, are inertia, composition and decomposition of forces, interaction of bodies, force, mass and acceleration. In the ninth class, the relevant themes can be substantiated and generalized on the example of an internal combustion engine. Here the teacher has first to show the working principle of a crankshaft. The entire mechanism or parts of it can be obtained from the engineering science room of the school. The crankshaft can further

Card 2/3

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The Connection Between Physics Teaching and the Study of the  
Automobile

serve to illustrate oscillating motion. The discussion of the subject "molecular physics and heat" is to be terminated by a study of the operating cycle of an internal combustion engine. There are 3 diagrams, 1 graph and 2 Soviet references.

Card 3/3

BESPAL'KO, V.P.

Some demands concerning educational motion pictures on  
technical and vocational training. Politekh.obuch. no.11:  
84-87 N '59. (MIRA 13:2)

1. Institut metodov obucheniya APN RSFSR.  
(Motion pictures in education)  
(Vocational education)

BESPAL'KO, Vladimir Pavlovich

[Handbook on mechanical engineering; automobile. Textbook  
for students] Rukovodstvo po mashinovedeniiu; avtomobil'. Po-  
sobie dlia uchashchikhsia. Izd.4. Moskva, Gos.uchebno-  
pedagog-izd-vo, 1960. 1 v. (MIRA 15:9)  
(Automobiles) (Mechanical engineering)

BESPAL'KO, V., kand.pedagog.nauk; GEL'BURT, B., inzh.

Is the program obsolescent? Za rul. 18 no. 12:7 D '60.  
(MIRA 14:1)

1. Nauchno-issledovatel'skiy institut proizvodstvennogo obucheniya  
(for Gel'burt).  
(Automobile drivers)

BESPAL'KO, Vladimir Pavlovich; GEL'BURT, Boris Yefimovich;  
PROTASOVSKIY, Georgiy Aleksandrovich; KASABOV, Sh.M.,  
st. prepod., retsenzent; ZHIDELEV, M.A., kand. ped.  
nauk, red.; NOVOSELOVA, V.V., tekhn.red.

[Vocational training of automobile repairmen in secondary schools] Proizvodstvennoe obuchenie v srednei shkole professii slesar'-avtoremontchik; metodicheskoe posobie dlia prepodavatelei i instruktorov proizvodstvennogo obucheniia. Pod red. M.A.Zhideleva. Moskva, Izd-vo APN RSFSR, 1962. (MIRA 16:6)  
237 p.

1. Kafedra obshchetekhnicheskikh distsiplin i truda Moskovskogo gosudarstvennogo pedagogicheskogo instituta im. V.I. Lenina (for Kasabov).  
(Automobiles--Maintenance and repair)

BESPAL'KO, V., kand.pedagog.nauk; GEL'BURT, B., inzh.-pedagog

From simple to complicated problems. Za rul. 20 no.1:16  
Ja '62. (MIRA 15:2)

(Motor vehicles--Study and teaching)

BESPALKO, V.P.

Cardiovascular and respiratory reflexes in prolonged compression of the soft tissue [with summary in English, p.159] Vest.khir. 77 no. 6:81-85 Je '56.  
(MLRA 9:8)

1. Iz kafedry patologicheskoy fiziologii (nach. - prof. I.R.Petrov) Voenno-meditsinskoy ordena Lenina akademii im. S.M.Kirova. Riga, 14, Gamburgas, d. 6-a, kv. 1.

(CARDIOVASCULAR SYSTEM, in various diseases,  
exper. crush synd. (Rus))

(RESPIRATION, in various diseases,  
same)



L 52576-65 ENT(m)/ENP(1)/ENP(t)/ENP(b) JD

ACCESSION NR: AP5012026

UR/0377/65/000/001/0024/0027

AUTHOR: Umarov, G. Ya.; Kordub, N.V.; Bespal'ko, V.P.; Gafurov, A.

TITLE: Experimental determination of the shape of the reflecting surface of an inflatable film concentrator

SOURCE: Geliotekhnika, no. 1, 1965, 24-27

TOPIC TAGS: film concentrator, solar energy converter, inflatable film concentrator, reflector shape, polyethylene terephthalate film

ABSTRACT: The shape of the reflecting surface of a film concentrator was studied as a function of the difference in the pressures on both sides of the film. The reflecting surface was a metallized film of polyethylene terephthalate 13.5  $\mu$  thick and 50 cm in diameter. The principle of the determination of the shape consists of comparing the actual shape with the calculated ones, assuming that the reflecting surface assumes the shape of a spherical segment or that of a paraboloid of revolution. To determine the actual shape, shadows of the profile of the film formed by a beam of parallel light were projected on a plane and photographed in eight different positions corresponding to the application of eight different stretching forces exerted by air on the film. The

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ACCESSION NR: AP5012026

geometrical and mathematical treatment of the figures thus obtained is presented. At low values of the bending deflection of the film, the shape of the reflecting surface approaches that of a paraboloid of revolution; as the deflection increases and attains high values, the shape gradually approaches a spherical segment. Orig.art. has: 2 figures, 2 tables, and 7 formulas.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN UzSSR (Physics and Engineering Institute, AN UzSSR)

SUBMITTED: 01Nov64

ENCL: 00

SUB CODE: EE

NO REF SOV: 001

OTHER: 000

2/2

BESPALOV, A.

"Our Experience of Technical Utilization and Repair by the Ships'  
Crews," Morskoy Flot, No. 4, 1948 Sr. Mech., M "Ukraine." 1943

1. BESPALOV, A. M., ENG.
2. USSR (600)
4. Welding
7. Securing high quality of welded metal products, Avtog. delo, 24, No.1, 1953.

9. Monthly Lists of Russian Accessions, Library of Congress, April, 1953, Uncl.

AUTHOR: Bespalov, A.M.

SOV-135-58-3-12/19

TITLE: Safety in the Repair of Petroleum Product Containers (Tekhnika bezopasnosti pri remonte nefitetary)

PERIODICAL: Svarochnoye proizvodstvo, 1958, Nr 3, p. 38 (USSR)

ABSTRACT: The described safety measure in the repair-welding of petroleum product containers consists of filling the container with exhaust gas from internal combustion engines. Since such gas precludes the possibility of explosion, the tare to be welded needs no preliminary cleaning. There is 1 table.

1. Petroleum--Containers 2. Containers--Welding 3. Welding--Safety measures 4. Exhaust gases---Applications

Card 1/1

BESPALOV, A. V.

"A Graphic Method for Determining the Elements of the Orbits of Visible Binary Stars." Cand Phys Math Sci, State Astronomical Institute P. K. Shternberg, Moscow Order of Lenin State University M. V. Lomonosov, Khabarovsk, 1953. (KL, No 8, Feb 55)

SO: Sum. No 631, 26 Aug 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14)

BESPALOV, A.V.

New determination of orbital elements of seven visual binaries  
Rst 2338,  $\lambda$  143, I 83, h 477,  $\lambda$  264, R 297, Resell 321.  
Astron. zhur. 40 no.5:956-957 S-O '63. (MIRA 16:11)

1. Khabarovskiy institut inzhenerov zheleznodorozhnogo transporta.

S/035/62/000/003/010/053  
AC01/A101

AUTHOR: Bespalov, A. V.

TITLE: A graphical method of determining orbital elements of visual binaries and some statistical regularities among them

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 3, 1962, 39-40, abstract 3A300 ("Tr. Gos. astron. in-ta im. P. K. Shternberga", 1961, v. 30, 75-103)

TEXT: The author describes a new graphical method for determining orbital elements of visual binaries. The method is based on using the drawings of standard visual ellipses of orbits plotted in advance for various values of  $e$ ,  $i$  and  $\omega$ . The  $e$ -value of the actual ellipse is found from the visual ellipse of the orbit of a given star by the conventional graphical method. Standard ellipses to be used are selected on the basis of the  $e$ -value. An ellipse the shape of which approaches best the shape of the observed one is sought for. The use of standard ellipses enables one to find  $\omega$  as well as  $i$  and  $e$ . Subsequently,  $a$  is determined. To determine  $P$  and  $T$ , time notes are marked on standard ellipses in intervals of 0.05 fraction of the period. Comparing the orbital

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S/035/62/000/003/010/053  
A001/A101

A graphical method of determining ...

elements of four binaries determined by the author's method with the respective most probable values, it was found that differences in the values of  $P$ ,  $T$ ,  $e$  and  $a$  were small, but in the values of  $i$  and  $Q$  were perceptible. The author considers the problems of determining orbits on the basis of a short arc performed by a satellite around the main star. The new method was used to determine orbital elements of 60 visual binaries in which the satellite moved around the main star along an arc of over  $40^\circ$ . The catalogue attached contains elements of the orbits, hypothetic and dynamic parallaxes, visual absolute magnitudes and masses of components. To specify the values of  $T$  and masses, a relationship was used between the visual absolute magnitude and mass of a star (tables of this relationship for various star groups are presented; they were compiled on the basis of the mass-luminosity relations derived by P. P. Parenago and A. G. Masevich). It was assumed that the satellite belongs to the same star group on the spectrum-luminosity diagram as the main star. The spectrum-luminosity diagram was plotted for the stars investigated. It was found that the 1000 star was a probable subdwarf. The period-eccentricity relation was studied for 328 binaries with the known elements. It was concluded that there was no correlation between  $LgP$  and  $e$ , but a weak correlation between these quantities is explained by the effect of observational selection. The  $i$ -distribution in

Card 2/3

A graphical method of determining ...

3/035/62/000/003/010/053  
A001/A101

regions with different galactic latitudes was investigated. The distribution mode is the same for all the regions and amounts to  $50^{\circ}$ . The mean  $i$ -value is equal to  $51.5^{\circ}$ . The conclusion has been drawn that  $i$ -distribution has a random form. There are 26 references.

B. Resenko

[Abstracter's note: Complete translation]

Card 3/3

BESPALOV, A.V.

New determination of elements of visual-binary orbits  
ADS 684, 784, 1613, 2034, 2173, 2768, 3169, 3701, 5752,  
7871, 8695, 8739, 11468, 12961, 16539. Astron.zhur.  
39 no.6:1134-1136 N-D '62. (MIRA 15:11)

1. Khabarovskiy institut inzhenerov zheleznodorozhnogo  
transporta.

(Stars, Double--Orbits)

BESPALOV, Aleksey Vasil'yevich, kands. fiz.-matem. nauk, dots.:  
SOLOV'YEVA, T.F., red.

[Brief information on cartographic projections and fundamentals of the plotting of state control nets; textbook on surveying for students specializing in construction and the operation of railroads] Kratkie svedeniia o kartograficheskikh proekttsiakh i oboznakh postroeniia gosudarstvennykh opornykh setei; uchebnoe posobie po geodezii dlia studentov spetsial'nostei S. IGH, MT, D, VK, ES. Moskva, Vses. zaachnyi in-t inzhenerov zhel-dor. transp., 1963. 37 p. (MIRA 17:10)

1. Khabarovskiy institut inzhenerov zheleznodorozhnogo transporta (for Bespalov).

BESPALOV, A.V.

New determinations of the elements of orbits of visual binaries  
ADS 5949, 7203, 9186, 9643, 13944, 14099, 14296, 15270, 16591, 16700.  
Astron. zhur. 41 no. 4: 772-773 J1-Ag '64 (MIRA 17:8)

1. Khabarovskiy institut inzhenerov zheleznodorozhnogo transporta.

SPIVAKOVSKIY, A.O.; MEL'NIKOV, N.V.; YEVNEVICH, A.V.; TOPCHIYEV, A.V.;  
LAPOVENKO, N.A.; ~~BEZPALOV, B.F.~~ otvetstvennyy redaktor;  
KANASKOVA, I.P., tekhnicheskiiy redaktor

[Equipment for mine transportation, an album of designs] Oborudovanie  
rudnichnogo transporta; atlas Konstruktsii. Moskva, Ugletekhizdat.  
Pt.2. [Haulage in open-cut mining] Transport na otkrytykh razrabotkakh.  
1956. 167 p. (MLM 10:3)  
(Mine haulage)

BEZPALOV, B.F.

BEZPALOV, B.F., inzhener; OSIPOV, A.M., inzhener.

Peculiarities and prospects in turbodrilling of large diameter  
boreholes. Shakht. stroi. no.7:21-24 J1 '57. (MLRA 10:8)  
(Turbodrills) (Boring)

BESPALOV, B.F., inzh.

KU-0,25 mine supports setting equipment. Shakht.stroi. no.9:21-22  
S '57. (MIRA 10:10)  
(Mine timbering--Equipment and supplies)



*Беспалов Б.*  
BESPALOV, B.L., inzhener

Method of controlling the coaxiality of gimbal frames of aviation  
gyroscopic instruments. [Trudy] MVTU no.30:60-77 '55.  
(Aeronautical instruments) (MLRA 8:10)

BESPALOV, B.L., inzhener

Effect of surface unevenness of multiple-unit boring-machine  
tables on precision working. [Trudy] MVTU no.30:78-91 Ap-  
My'55. (MLRA 8:10)

(Drilling and boring machinery)

BESPALOV, B.L., inzhener.

Method for quantitative evaluation of the nonrectilinearity and  
nonplanarity of large planes. Vest.mash. 37 no.10:29-33 0 '57.  
(MIRA 10:11)

(Approximate computation) (Surfaces (Technology))

RESOLUTION

9(7)

PHASE I BOOK EXPLOITATION

SOV/1569

Moscow. Vyssheye tekhnicheskoye uchilishche

Tekhnologiya priborostroyeniya; sbornik statey (Instrument-making Technology; Collection of Articles) Moscow, Oborongiz, 1958. 185 p. (Series: Its: /Trudy/ vyp. 90) 3,800 copies printed.

Ed.: A.N. Malov, Candidate of Technical Sciences; Chief Ed.: A.S. Zaymovskaya, Engineer; Ed. of Publishing House: E.A. Shekhtman; Tech. Ed.: N.A. Pukhlikova.

**PURPOSE:** This collection of articles is intended for workers in scientific and research institutes and instrument manufacturing plants and for teachers and students in vtuzes.

**COVERAGE:** The book deals with problems of automatic machine tool adjustments. It analyzes errors in setting up cutting tools and reviews basic technological calculations connected with the introduction of programming. Several articles are devoted to the analysis of pressure in machining parts and to the assembly operations in instrument manufacturing. A brief biography of Professor Abram Borisovich Yakhin (1901-1957) precedes the first article. No personalities are mentioned. There are no references.

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Instrument-making (Cont.)

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AVAILABLE: Library of Congress

JG/sfm  
6-26-59

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BESPAIOV, B.L.

Effect of deformation of billets, caused by their fastening on the precision of machining. [Trudy] MVTU no.90:42-58 '58. (MIRA 12:3)  
(Metal cutting)

BESPALOV, B.L.

Effect of the irregularity of allowances on the precision of boring  
body parts on boring-machine units. [Trudy] MVTU no.90:59-71 '58.  
(MIRA 12:3)

(Drilling and boring machinery)



BESPALOV, B.L., Cand Tech Sci. (diss) "Study of the <sup>precision</sup> ~~accuracy~~  
of ~~the~~ <sup>of frames of the</sup> boring of universal joint of a gyroscopic  
~~airplane~~ <sup>aircraft</sup> instruments on a unit-boring machine." Mos, 1959,  
16 pp (Min of Higher Education USSR. Mos Machine Tool <sup>and Instrument</sup> Inst im  
I.V. Stalin) 150 copies (KL, 34-59, 113)

- 37 -

BESPALOV, B.N.

ART-61 automatic temperature regulator. Avtom., telem.i svyaz'  
7 no.3:13-15 Mr '63. (MIRA 16:2)

1. Vedushchiy konstruktor otдела Konstruktorskogo byuro  
Glavnogo upravleniya signalizatsii i svyazi Ministerstva putey  
soobshcheniya na zavode "Transsvyaz".  
(Temperature regulators)

KOZLOV, V.B.; LYSENKO, I.M.; MATVEYEV, A.N.; TRAKHTENBERG, M.V.;  
USPENSKIY, Ye.I.; GURVICH, A.K.; BESPALOV, B.N., inzh.,  
retsenzent; SPASSKIY, D.S., inzh., red.; MEDVEDEVA, M.A.,  
tekhn. red.

[Flaw detection in rails] Rel'sovaya defektorskopiia. [By]  
V.B.Kozlov i dr. Izd.2., perer. i dop. Moskva, Transzhel-  
dorizdat, 1963. 286 p. (MIRA 16:8)

(Railroads--Rails--Defects)  
(Nondestructive testing)

KAPUSTA, A.S., inzh.; BESPALOV, B.N.; BARSKIY, S.M.

A set of generators with stabilized frequency. Avtom. telem.  
i svyaz' 8 no.9:1-5 S '64. (MIRA 17:10)

1. Glavnyy konstruktor otdela Konstruktorskogo byuro Glavnogo upravleniya signalizatsii i svyazi Ministerstva putey soobshcheniya na zavode "Transsvyaz'" (for Kapusta, Bespalov).
2. Nachal'nik otdela Konstruktorskogo byuro Glavnogo upravleniya signalizatsii i svyazi Ministerstva putey soobshcheniya na zavoda "Transsvyaz'" (for Barskiy).

BESPALOV, B.N., inzh.; KAPUSTA, A.S.

New system for the power supply of automatic exchanges.

Avtom., telem. i sviaz' 9 no.11:16-18 N '65.

(MIRA 18:12)

BESPALOV, B.N., inzh.; KAFUSTA, A.S., inzh.

VSP 60/60 stabilized rectifier. Avtom., telem. i sviaz' 9  
no.12:3-7 D '65.

(MIRA 19:1)

FU Use of scintillation counters in radiometric apparatus for the oil industry. B. G. Brogol'mskii and D. P. Bespalov. Sci. Rep. Akad. Nauk S.S.S.R. for Mirnaya Teoriya i Eksperiment Atomnoi Energii 1953, Zashchita Otdel. Tekh. Nauk, 320-35 (English summary, 336-7).—Two new scintillation counters are discussed which permit the  $\gamma$  and neutron  $\gamma$  logging of oil wells, and can be used for the measurement of radioactivity of rocks, waters, and oils in the lab. An apparatus for measuring the  $\alpha$ -activity of rocks is described briefly.

W. M. Sternberg

①

LPH

BESPALOV, D.F.; GRUMBKOV, A.P.

Using a luminescent counter for measuring the radioactivity of  
rocks, water, and petroleum. Razved.i prom.geofiz. no.12:6-11  
'55.(Nuclear counters)(Oil well logging, Radiation)(MIRA 9:7)



BESPALOV, D. F.

AID P - 3284

Subject : USSR/Mining

Card 1/1 Pub. 78 - 14/24

Author : Bespalov, D. F. and B. G. Yerozolinskiy

Title : Standard equipment of radioactive logging

Periodical : Neft. khoz., v. 33, #9, 63-66, S 1955

Abstract : A short description and circuit diagram of the NCGK-53 apparatus for radioactive logging to measure the natural radioactive emanation (gamma and neutron radiation) coming from the various strata around the drill hole. This apparatus is designed by the Scientific Research Institute of Geophysics Prospecting Methods (NIIGR) and produced by the plant "Neftepribor".

Institution : Moscow Petroleum Institute im. I. M. Gubkov (MNI) and its research workers B. B. Lapuk and G. N. Flerou; Central Scientific Research Laboratory (TsNIL).

Submitted : No date

BESPALOV, D. F. and GRUMBKOV, A.P.

"New Radiation Metering Devices," by D. F. Bespalov and A. P. Grumbkov, Neftyanoye Khozyaystvo, No 9, Sep 56. pp 39-43

Two methods of radioactive prospecting of wells are widely used at present: one is based on registering the natural gamma-ray radiation from the rocks, and other on registering the secondary gamma-ray radiation excited in the rocks by the action of neutrons.

Scintillation counters used to register gamma-ray radiation consist of an optical combination of scintillating substances (luminophores) with a photoelectric multiplier, which converts scintillations of a luminophore into electric voltage pulses. Solid transparent substances, generally of a crystalline nature, are used as luminophores for registering gamma radiation.

At the Institute of Petroleum, Academy of Sciences USSR, in 1953, work was started on developing new instruments incorporating scintillation counters.

"As a result of this work, in the USSR there were created and successfully tested, under laboratory and industrial conditions, instruments for the radioactive survey of wells (instrument LS-2), and for measuring the gamma radiation of rocks, water, and oil (instrument LS-1), both of which utilized domestically manufactured scintillation counters."

"In the depth instrument, used in the radioactive survey of wells, a scintillation counter serves as an indicator of gamma radiation, and a crystal of cesium iodide 35 mm in diameter and 20 mm long is used as a luminophore, in conjunction with photomultiplier FEU-19."

In 1954 and 1955 instrument LS-2 underwent industrial tests on the ore deposits of Stalingrad and Kuybyshev oblasts, proving itself reliable and stable in operation.

Sum 1258

KUKHARENKO, N.K.; SHIMELEVICH, Yu.S.; RESPALOV, D.F.; OKINOKOV, V.A.

New geophysical method of exposing petroleum- and water-bearing strata,  
and determination of the water-oil boundary in cased wells. Neft.khoz.34  
no.3:43-49 Nr '56. (MLRA 9:7)

(Oil well logging)

*BESPALOV, D. F.*  
BESPALOV, D. F., et al.

"Scintillation Counters in Radiometric Petroleum Equipment," Utilization of Radioactive Isotopes & Emanations in the Petroleum Industry (Symposium), Min. Petroleum Industry USSR, 1957.

Results of the Joint Session of the Technical Council of Min of the Petroleum Industry USSR and Soviet Sci. and Technical Association, Moscow 14-19 Mar 1956.

Basilev, D. V.

PHASE I BOOK EXPLOITATION

SOV/3600

Yadernaya geofizika; sbornik statey po ispol'zovaniyu radioaktivnykh izlucheni  
i izotopov v geologii nefi (Nuclear Geophysics; Collection of Articles on  
the Use of Radioactive Radiation and Isotopes in Petroleum Geology) Moscow,  
Gostoptekhizdat, 1959. 370 p. Errata slip inserted. 4,000 copies printed.

Ed.: F.A. Alekseyev, Professor, Doctor of Geological and Mineralogical Sciences;  
Exec. Ed.: A.P. Kalantarov; Tech. Ed.: A.S. Polosina.

PURPOSE: This book is intended for petroleum geologists, geophysicists and sci-  
entists engaged in geological research who are interested in radiometric tech-  
niques of petroleum prospecting.

COVERAGE: The collection contains 28 articles compiled by staff members and  
aspirants of the Laboratory for Nuclear Geology and Geophysics of the Petroleum  
Institute (now the Institute for Geology and Mineral Fuel Processing) of the  
Academy of Sciences USSR, the Laboratory for Radioactive Logging of the All-  
Union Scientific Research Institute of Geophysics, and the heads of councils  
for planning research projects for petroleum enterprises. The articles treat  
new material on radiometric surveying in petroleum geology, describe radio-

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Nuclear Geophysics; (Cont.)

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metric instruments (counters, etc.) for registering neutrons and gamma rays, give the results of research with models of rock strata, introduce fundamentals of a new method for effectively utilizing radioactivity in the analysis of rock samples from petroleum-survey bore holes, etc. Problems of method in the study and interpretation of radiometric measurements in bore holes are reviewed, as well as the results of studies in the nonabsorption of tritium in tracing the movement of petroleum and water in a stratum. Finally, a new method of surveying based on measuring the radioactivity of the surface of a prospective petroleum deposit is described. No personalities are mentioned. References accompany each article.

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Nuclear Geophysics; (Cont.)

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Nuclear Geophysics; (Cont.)

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Nuclear Geophysics; (Cont.)

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BESPALOV, D F

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PHASE I BOOK EXPLOITATION SOV/5410

Tashkentskaya konferentsiya po mirnomu ispol'zovaniyu atomnoy energii, Tashkent, 1959.

Trudy (Transactions of the Tashkent Conference on the Peaceful Use of Atomic Energy) v. 2. Tashkent, Izd-vo AN UzSSR, 1960. 449 p. Errata slip inserted. 1,500 copies printed.

Sponsoring Agency: Akademiya nauk Uzbekskoy SSR.

Responsible Ed.: S. V. Starodubtsev, Academician, Academy of Sciences Uzbek SSR. Editorial Board: A. A. Abdullayev, Candidate of Physics and Mathematics; D. M. Abdurasulov, Doctor of Medical Sciences; U. A. Arifov, Academician, Academy of Sciences Uzbek SSR; A. A. Borodulina, Candidate of Biological Sciences; V. N. Ivashev; G. S. Ikramova; A. Ye. Kiv; Ye. I. Iobanov, Candidate of Physics and Mathematics; A. I. Nikolayev, Candidate of Medical Sciences; D. Nishanov, Candidate of Chemical Sciences; A. S. Sadykov, Corresponding Member, Academy of Sciences USSR, Academician, Academy of Sciences Uzbek SSR; Yu. N. Talanin,

Case 1120

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Transactions of the Tashkent (Cont.)

SOV/5410

Candidate of Physics and Mathematics; Ya. Kh. Turakulov, Doctor of Biological Sciences. Ed.: R. I. Khamidov; Tech. Ed.: A. G. Babakhanova.

PURPOSE: The publication is intended for scientific workers and specialists employed in enterprises where radioactive isotopes and nuclear radiation are used for research in chemical, geological, and technological fields.

COVERAGE: This collection of 133 articles represents the second volume of the Transactions of the Tashkent Conference on the Peaceful Uses of Atomic Energy. The individual articles deal with a wide range of problems in the field of nuclear radiation, including: production and chemical analysis of radioactive isotopes; investigation of the kinetics of chemical reactions by means of isotopes; application of spectral analysis for the manufacturing of radioactive preparations; radioactive methods for determining the content of elements in the rocks; and an analysis of methods for obtaining pure substances. Certain

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instruments used, such as automatic regulators, flowmeters, level gauges, and high-sensitivity gamma-relays, are described. No personalities are mentioned. References follow individual articles.

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AUTHORS: Alekseyev, F.A., Yerozolimskiy, B.G., ~~Bespalov, D.F.~~,  
Bondarenko, L.N., Boytsik, L.P., Popov, N.V.,  
Khaustov, A.I., Romanovskiy, V.F., Shimelevich, Yu.S.  
Shkol'nikov, A.S., and Yudin, L.I.

TITLE: The result of applying neutron impulse methods and  
apparatus for investigating borehole logs

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 11, 1961, 34,  
abstract 11A304 (V sb. Yadern. geofiz. pri poiskakh  
polezn. iskopayemykh, M., Gostoptekhhizdat, 1960, 3-20)

TEXT: A borehole impulse generator of neutrons is described toge-  
ther with the method of impulse-neutron neutron-logging (INNL). A  
description is given for the electronic layout of the borehole ge-  
nerator of neutrons and the surface apparatus for impulse neutron  
logging. During laboratory tests of the generator a stable mean neu-  
tron yield of  $\sim 2 \times 10^7$  neutr./sec. was obtained at 100 kv. of acce-  
lerating voltage in the tube. The impulse duration amounted to 100

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The result of applying neutron ...

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μsec, the transmission frequency being 400 c/s. The neutron generator was used in the commercial testing of INNL. INNL readings against oil-bearing beds exceed by 10 times those for aquiferous beds containing mineralized water, at a delay time of 1000 μsec. Certain impediments and limitations of thermal impulse neutron-logging in different oil- and water-saturated beds are indicated, and the requirements for the apparatus are stated. Further prospects are indicated for the application of impulse neutron generators. [Abstractor's note: Complete translation].

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ABRAMYAN, S.L.; AKSEL'ROD, S.M.; ALEKSEYEV, F.A.; AL'TSHEL', S.A. [deceased],  
BESPALOV, D.F.; GADZHI-KASIMOV, A.S.; ZHILIN, K.A.; LISTENGARTEN, B.M.;  
ODINOKOV, V.P.; PUTKARADZE, L.A.; SHIMELEVICH, Yu.S.

Neutron-neutron pulse method for investigating wells and results of  
its use in the Balakhan'-Sabunchi-Ramany field. Azerb. neft. khoz.  
39 no.11:9-13 N '60. (MIRA 13:12)  
(Apsheiron Peninsula—Oil well logging, Radiation)

BESPALOV, D. F

PHASE I BOOK EXPLOITATION SOV/5592

Vsesoyuznoye soveshchaniye po vnedreniyu radioaktivnykh izotopov i yadernykh izlucheniyy v narodnom khozyaystve SSSR. Riga, 1960.

Radioaktivnyye izotopy i yadernyye izlucheniya v narodnom khozyaystve SSSR; trudy Vsesoyuznogo soveshchaniya 12 - 16 aprelya 1960 g. g. Riga, v 4 tomakh. t. 4: Poiski, razvedka i razrabotka poleznykh iskopayemykh (Radioactive Isotopes and Nuclear Radiation in the National Economy of the USSR; Transactions on the Symposium Held in Riga, April 12 - 16, 1960, in 4 volumes. v. 4: Prospecting, Surveying, and Mining of Mineral Deposits) Moscow, Gostoptekhizdat, 1961. 284 p. 3,640 copies printed.

Sponsoring Agency: Gosudarstvennyy nauchno-tekhnicheskyy komitet Soveta Ministrov SSSR. Gosudarstvennyy komitet Soveta Ministrov SSSR po ispol'zovaniyu atomnoy energii

Eds. (Title page): N. A. Petrov, L. I. Petrenko, and P. S. Savitskiy; ed. of this volume: M. A. Speranskiy; Scientific ed.: M. A. Speranskiy; Executive Eds.: N. N. Kuz'mina and A. G. Ionel';

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Radioactive Isotopes and Nuclear (Cont.)

SCV/5592

Tech. Ed.: A. S. Polosina.

PURPOSE : The book is intended for engineers and technicians dealing with the problems involved in the application of radioactive isotopes and nuclear radiation.

COVERAGE: This collection of 39 articles is Vol. 4 of the Transactions of the All-Union Conference of the Introduction of Radioactive Isotopes and Nuclear Reactions in the National Economy of the USSR. The Conference was called by the Gosudarstvennyy nauchno-tekhnicheskiy komitet Sovet Ministrov SSSR (State Scientific-Technical Committee of the Council of Ministers of the USSR), Academy of Sciences USSR, Gosplan SSSR (State Planning Committee of the Council of Ministers of the USSR), Gosudarstvennyy komitet Soveta Ministrov SSSR po avtomatizatsii i mashinostroyeniyu (State Committee of the Council of Ministers of the USSR for Automation and Machine Building), and the Council of Ministers of the Latvian SSR. The reports summarized in this publication deal with the advantages, prospects, and

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SOV/5592

development of radioactive methods used in prospecting, surveying, and mining of ores. Individual reports present the results of the latest scientific research on the development and improvement of the theory, methodology, and technology of radiometric investigations. Application of radioactive methods in the field of engineering geology, hydrology, and the control of ore enrichment processes is analyzed. No personalities are mentioned. There are no references.

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"The Neutron-neutron Pulse Well-logging."

report to be submitted for the Conference on Nuclear Geophysics,  
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KESPALOV, D. M. (probably D. F.) and SAVOSIN, I. F.

"Neutron Generators for Well Studies."

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 Ye.N.; IGRUNOV, V.D.; NECHAYEV, I.N.; BESPALOV, D.P.;  
 ILLARIONOV, V.I.; GLEBOV, F.A.; GLAZOVA, Ye.F.; KAULIN, N.Ya.;  
 GORYSHIN, V.I.; GAVRILOV, V.A.; TIMOFEYEV, M.P., retsenzent;  
 YEFREMYCHEV, V.I., retsenzent; KRASOVSKIY, V.B., retsenzent;  
 V'YUNNIK, A.P., retsenzent; STERNZAT, M.S., otv. red.;  
 RUSIN, N.P., otv. red.; YASNOGORODSKAYA, M.M., red.; VOLKOV,  
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